

1 worked in order to have the electrons to even flow  
2 in the environment where there was that type of an  
3 integrated digital loop carrier system connected to  
4 multiple switches, each owned and operated by  
5 different carriers.

6 So, you know, basically, we believe that,  
7 first, we don't have any of this equipment at all in  
8 Verizon Virginia, so that doesn't make a whole lot  
9 of sense to do a trial. On top of that, the Exhibit  
10 D information is probably about the level of depth  
11 that you would typically get from the readout of a  
12 first-stage trial to get the electrons to flow. It  
13 identifies a number of further industry issues that  
14 would need to be worked in order to successfully get  
15 the electrons to flow in a multiple carrier  
16 environment.

17 And I think, more importantly, the issues  
18 that are raised in the Alcatel document, they aren't  
19 issues that just Alcatel can solve, they're not  
20 issues that just Verizon can solve; they are really  
21 industry issues.

22 There is a GR 303 forum that Bell Corp

1 convenes. That group is basically responsible for  
2 the ongoing evolution of the GR 303 specification.

3 Verizon is a member of that group. Other  
4 LECs are members of that group. Other CLECs are  
5 members of that group. Manufacturers are members of  
6 that group.

7 It's an industry forum that basically  
8 works on the effort that's required to further build  
9 and expand and to modify and to change the GR 303  
10 specification. And what Alcatel's letter indicates,  
11 correctly, is that there is further specifications,  
12 further standard-setting, further industry work that  
13 that body would have to do to then put the vendor  
14 and the carrier community in a position where they  
15 could potentially develop and use the GR 303  
16 specification in a multiswitch plus multicarrier  
17 type of a configuration.

18 So that's pretty much our view of why we  
19 don't like the warm fuzzy puppy, and it kind of  
20 comes down to, we've got two methods that will  
21 always do. We will always put in copper, always put  
22 in universal carrier, one or the other, we'll issue

1 you an engineering job and build more stuff. That's  
2 what we do for ourselves.

3 We feel like we've already provided to  
4 Cavalier sufficient information that goes beyond  
5 typically or equals what would be the output from a  
6 first stage trial of getting the electrons to flow,  
7 and we think we've got a very thorough evaluation  
8 and sound conclusions that basically say those are  
9 the two methods that are going to be tremendously  
10 more expensive, which I tried to quantify and  
11 describe.

12 MR. LERNER: We won't hold that against  
13 your time, Mr. Perkins.

14 MR. PERKINS: Thank you.

15 (Laughter.)

16 MR. ALBERT: It's a little bit more than,  
17 whoa, we've got trouble. We have an answer, and we  
18 got the best one.

19 MS. NATOLI: Just so you know, that was a  
20 question the commission staff had, and we were going  
21 to ask that question, regardless of whether it was  
22 covered in your testimony -- or your cross, so I

1 just wanted to make that clear.

2 MR. PERKINS: I think Cavalier's puppy  
3 just got run over by the Verizon truck.

4 (Laughter.)

5 BY MR. PERKINS:

6 Q Mr. Albert, this is the first place I've  
7 seen this from Verizon, so tell me if I'm wrong,  
8 that Verizon does not use or deploy the GR 303  
9 interface on any Verizon IDLC systems or switches in  
10 Virginia.

11 A (Mr. Albert) I could have sworn you asked  
12 me that at the 271 hearings, and that's what I said,  
13 but maybe I'm remembering Massachusetts hearings or  
14 New York hearings.

15 I mean, we have dealt with this issue  
16 starting from New York 271 through Massachusetts  
17 271, and at the end of the line at the Virginia 271  
18 hearings.

19 Q Well, I doubt that you talked about the  
20 deployment of equipment in Virginia or Massachusetts  
21 or New York.

22 A (Mr. Albert) The answer was the same in

1 those states. We don't have -- there was a couple  
2 limited trials that were done up in the north.

3 Q Really.

4 A (Mr. Albert) Yeah. But none in Virginia.

5 Q Okay. Is there some reason why some of  
6 these figures like the \$170 per month in switching  
7 charges and the tying-together of the analysis that  
8 you provided in 1999 and this 1999 Alcatel letter  
9 and all was not included in your testimony?

10 A (Mr. Albert) No, just thought of it as a  
11 way to explain stuff. I mean, I thought -- you  
12 know, you say a lot of money, millions, I think  
13 people just say so what, so I tried to think of a  
14 way to try to estimate in teleterms what the  
15 switching would be.

16 If you read the words in the conclusion of  
17 the hairpin analysis we did, I tried to make that as  
18 clear as we could, that this stuff was mega, mega  
19 expensive, and we say right in there at the end,  
20 it's much cheaper to do copper or universal.

21 Q That gets back to the question that  
22 started you on your train of explanation, and that

1 is, is Verizon categorically opposed to, in essence,  
2 exploring some sort of unbundling trial?

3 MS. NEWMAN: I'm going to say objection,  
4 asked and answered. You asked him that before.

5 MR. PERKINS: No, he said he was opposed  
6 to the trial that we proposed. I just asked him if  
7 Verizon is categorically opposed to exploring any  
8 trial of unbundling loops served by IDLC.

9 MS. NEWMAN: I think you've already  
10 answered it, but you can answer it again.

11 MS. CLAYTON: I think maybe the important  
12 thing to say is we will, we are compliant with the  
13 TRO. The TRO came out and asked us to provide a  
14 technically feasible method of unbundled access, and  
15 we are doing that within the required time frame  
16 that the TRO established.

17 We don't have to trial the alternatives  
18 that we are proposing. We do them today.

19 BY MR. PERKINS:

20 Q You build copper for CLECs today?

21 MS. CLAYTON: We build copper facilities.

22 BY MR. PERKINS:

1 Q For CLECs?

2 A (Mr. Albert) For ourselves.

3 MS. CLAYTON: For ourselves.

4 THE WITNESS: (Mr. Albert) Prior to the  
5 TRO, when you hit the very narrow 1.2 percent of the  
6 lines, if you then got to the point where you had to  
7 do an engineering job to build more stuff, prior to  
8 the TRO, that's where we said no facilities.

9 Now, and I'm again not a lawyer, but it  
10 sure sounds to me like we've got to build it and put  
11 it in. We're going to do it the same way we do it  
12 for ourselves, and the least expensive, most  
13 efficient methods are the copper and the universal  
14 digital loop carrier.

15 BY MR. PERKINS:

16 Q Where you have IDLC, UDLC and some amount  
17 of spare copper in the field, isn't it true that you  
18 can, if there is substantial, say 50 percent market  
19 share by a CLEC developed rapidly or at least --  
20 strike rapidly -- deplete the availability of loops  
21 served by UDLC or spare copper?

22 A (Mr. Albert) You could, and then we would

1 have to put in more. I guess the way I'd answer  
2 that, though, is if you have to put in -- if you're  
3 rapidly depleting the facility at a location, the  
4 engineering guidelines that we have basically, say,  
5 when we provide additional facilities to a customer  
6 location, at that point in time, we will always add  
7 some amount of universal or some amount of copper,  
8 if neither of those are existing.

9 That's why this very narrow percentage has  
10 been coming down over the years. At the time of the  
11 271 hearings, I said it was 1.5 percent of the  
12 working lines in Virginia. That was about a year  
13 ago. Now we're down to 1.2. And at the 271  
14 hearings, I said prior to then what was the current  
15 1.5, a year before that we had been around 2  
16 percent.

17 So over the course of two years, this  
18 narrow universe has already decreased from 2 percent  
19 of the working lines down to 1.2 percent. That's a  
20 direct result of the engineering guidelines we have  
21 that say we've got to fix these situations, you  
22 know, as we put more facilities in, and when we do,



1 we'll write off at the get-go and make sure we've  
2 got ones that are unbundlable.

3 Q Is that a technical term of art?

4 A (Mr. Albert) Yeah, and it's in my  
5 testimony, too. I threw it in there. A number of  
6 the lawyers cut that stuff out. But unbundlable,  
7 yes.

8 (Laughter.)

9 Q Now, that 1.2 percent, that can vary  
10 somewhat substantially within a given wire center,  
11 can't it, or given locale of either lower or higher?

12 A (Mr. Albert) Yes, it could.

13 Q Now, if a given area or set of customers  
14 is served on IDLC and there is -- let me strike  
15 that, please. Start that one over.

16 We have a given customer in a new area  
17 that's IDLC only or IDLC, and there's spare copper  
18 and UDLC loops are exhausted. Verizon doesn't have  
19 to do anything to provide voice grade service or  
20 maybe even other services to that customer; is that  
21 right, to serve that customer over the IDLC loop?

22 A If they request POT service, we can put it

1 over that loop. There are a number of nonswitch  
2 special services that if they request those, we  
3 cannot provide them. In those cases, what we would  
4 do for ourselves is we would put in either  
5 additional copper or additional universal digital  
6 loop carrier so that we could provide that service.  
7 That's why I said for ourselves, you know, we're  
8 providing the same two methods that we use.

9 Q Let's limit it to voice grade service,  
10 just POTS, plain old telephone service. Verizon  
11 doesn't have to do anything additional to serve that  
12 customer; is that right?

13 A (Mr. Albert) That's -- you're correct,  
14 because Verizon can provide both the loop as well as  
15 our switching in one blob, using integrated digital  
16 loop carrier.

17 Q And if Cavalier wants to serve that  
18 customer under the terms proposed by Verizon,  
19 Cavalier would have to pay the amounts of money for  
20 UDLC or copper proposed -- under the rates proposed  
21 by Verizon to provide hot service to that customer;  
22 is that correct?

1           A       (Mr. Albert) I run when anybody says  
2 rates. I will defer to Rose.

3           A       (Ms. Clayton) Explain the situation  
4 again. Is it --

5           Q       We have a customer served -- excuse me.  
6 We have a customer on a loop served by IDLC,  
7 potential customer, calls Verizon and says I want  
8 service, Verizon can provide service over that --  
9 through that IDLC through that loop; correct?

10          A       (Ms. Clayton) Correct.

11          Q       Okay. Customer calls Cavalier and says, I  
12 want Cavalier's service, POTS, plain old telephone  
13 service, there's no UDLC loops, no spare copper  
14 available right now. Isn't it correct that Cavalier  
15 can only provide that service by paying the rates  
16 proposed by Verizon if those rates and terms are  
17 accepted, by paying those rates proposed by Verizon  
18 for either additional UDLC capacity or construction  
19 of additional copper?

20          A       (Mr. Albert) I'm sorry, did you say that  
21 there was no spare copper, but that meant that there  
22 is copper there?

1           Q     Maybe I need to break that out.  If it's a  
2     different answer depending on that, maybe we need to  
3     break it out.

4           A     (Mr. Albert)  It is, because it gets into  
5     a line and station transfer, which is a step that we  
6     go through.

7           A     (Ms. Clayton)  I assume you're talking  
8     post triennial.

9           Q     Yes.

10          A     (Ms. Clayton)  Post triennial, again, we  
11     have answered the order and are providing  
12     technically feasible means of unbundled access in a  
13     number of ways.  One could potentially be, as Don  
14     just mentioned, line and station transfer.  It could  
15     be a multiple step line and station transfer.

16                 We've agreed to move our existing working  
17     customers off of a facility in order to free it up  
18     for a CLEC and move our own customer onto a  
19     different type of facility.  That is one action that  
20     could be taken.

21                 If that is done, yes, there is a charge  
22     associated with the line and station transfer.  The

1 other option --

2 Q I'm sorry, may I interrupt for just a  
3 moment? That's the charge proposed by Verizon in  
4 its counterproposal in this arbitration?

5 A (Ms. Clayton) I believe we have proposed  
6 a rate for -- actually, let me clarify.

7 A line and station transfer has been in  
8 existence already to address situations we run into  
9 with DSL stand-alone loops today. This commission  
10 has seen, I believe, the line and station transfer  
11 language as well as the rates that we bill in  
12 Virginia.

13 Q I'm sorry, please continue.

14 A (Ms. Clayton) The second action that we  
15 could take, if an LST is not an option, would be as  
16 Don mentioned, build out a UDLC type facility. In  
17 that case, yes, there is an expense that is  
18 associated with an engineering query to see if the  
19 job can be performed, an engineering work order, if  
20 the CLEC agrees that, yes, they want us to go ahead,  
21 they do want to provision facilities, and there  
22 could be time and material related charges to

1 actually build out a facility.

2 Q And there's also the building additional  
3 copper; is that correct?

4 A (Ms. Clayton) There would be costs  
5 associated with that, yes.

6 MR. PERKINS: Thank you.

7 MS. CLAYTON: You're welcome.

8 MR. MAHER: Let me start, then, with  
9 Cavalier. Mr. Albert explained the concerns that  
10 Verizon has was the specific trials proposed by  
11 Cavalier. I was just wondering what your response  
12 or take on that is.

13 MR. VERMEULEN: Well, first of all, with  
14 regard to switch multihosting, we were not aware, we  
15 assumed that Verizon had GR 303 employed in the  
16 network. And when we covered they do not, obviously  
17 switch multihosting is not an option.

18 Secondly, with regard to hairpinning, we  
19 do know that there are other LECs that have somehow  
20 accomplished this task that have been through a  
21 trial, and it's one of the ways they offer  
22 competitive carriers access to areas served by

1 integrated digital loop carrier. I don't know how,  
2 they got through it, but somehow they did.

3 What we were trying to do is to work with  
4 Verizon and come up with a method that -- in which  
5 we are able to reach customers that are at -- that  
6 are served by RTs -- that are only served by  
7 integrated digital loop carrier. It's that simple.

8 MR. MAHER: That's all.

9 MR. MILLER: I'm just going to ask Verizon  
10 if you could, in your briefs, please identify all  
11 the changes and policies and procedures that you  
12 have made as a result of the triennial review order  
13 taking effect. It might just be what Mr. Albert and  
14 Ms. Clayton referenced with regard to IDLC. And we  
15 ask you to organize it consistent with how we  
16 directed you about the issues, at least in a  
17 footnote, try to list in one point, all the  
18 different changes to the procedures that you all  
19 have made. Thanks.

20 MS. NATOLI: I have a question. So let me  
21 just make sure I understand. If in implementing the  
22 requirement in the triennial to provide either

1 copper or a UDLC or some other technically feasible  
2 method, your technically feasible method will always  
3 be -- your position will always be that it will  
4 either be to build spare copper, if there isn't  
5 spare available, or the -- to do whatever is  
6 necessary to make UDLC available? You won't --  
7 you're not considering -- that's your other  
8 technically feasible method, if there isn't any  
9 already existing?

10 MS. CLAYTON: Or to swap to an existing  
11 facility. Either spare --

12 MS. NATOLI: To do that thing with your  
13 customers -- switching your customers.

14 MS. CLAYTON: Correct.

15 MR. ALBERT: Correct.

16 MS. NATOLI: If you, in that scenario,  
17 though, of building or the new copper, would you  
18 charge, then, Cavalier not just the price of the  
19 copper loop or the UDLC loop, whatever that charge  
20 is to get one that's already there, the new --  
21 whatever is involved in actually building it,  
22 building the new piece?



1 MS. CLAYTON: Yes.

2 MS. NATOLI: You would.

3 MS. CLAYTON: We would bill them. Those  
4 are facilities that do not exist today. The loop  
5 itself exists, but we would have to alter the  
6 existing IDLC facilities and actually build out in  
7 those cases. And there would be charges associated  
8 with that, to anyone who ordered from us.

9 MS. NATOLI: Well, let me ask you this.  
10 When you do that for your private -- your customer  
11 that you say takes nonswitched, a nonswitched  
12 service that you couldn't put over that existing  
13 IDLC loop that's out to that building, or that area  
14 in the scenario Mr. Perkins mentioned, if that  
15 customer wanted nonswitch service, you would put the  
16 physical facilities in, you said, to serve it;  
17 correct?

18 MR. ALBERT: That's correct.

19 MS. NATOLI: And you would charge that  
20 customer the construction charges associated with  
21 that, would you?

22 MS. CLAYTON: Not necessarily. I mean,

1 Verizon does incur costs in those cases, because  
2 again, we are building out.

3 MS. NATOLI: Sure.

4 MS. CLAYTON: But the way that we allocate  
5 cost is different in the retail market as it is in  
6 the wholesale market. We could recover those costs  
7 in another way, under different product offerings,  
8 allocated to different customers or, you know, just  
9 in a different way than we do in the wholesale  
10 arena.

11 MS. NATOLI: Okay. But I just want to  
12 understand, if the spare copper loop is available,  
13 then it would be rated to Cavalier, just as a  
14 normal, recurring and nonrecurring charge for a  
15 copper loop, if there is already one there?

16 MS. CLAYTON: If there is --

17 MS. NATOLI: Well, in this scenario,  
18 there's not going to be -- say this is a scenario  
19 where everybody is being served by IDLC carrier now,  
20 but previously there was copper there, and so there  
21 is spare copper there. So Verizon -- Cavalier wants  
22 to take the customer that you're serving over IDLC,

1 you've got spare copper there, you're going to just  
2 give them the spare copper, they're charged,  
3 recurring nonrecurring charge for copper loop?

4 MS. CLAYTON: Are you talking about moving  
5 one of our existing customers or not to free up a  
6 facility?

7 MS. NATOLI: No, no, the copper is just  
8 there.

9 MS. CLAYTON: The copper is spare. That  
10 would be considered a swap of facilities, and we  
11 would bill them, I believe the charge is \$127 for  
12 line and station transfer.

13 MS. NATOLI: To convert your customer from  
14 IDLC to that spare copper before then, they could  
15 get the spare copper.

16 MS. CLAYTON: That would allow us to offer  
17 Cavalier a customer who is currently served on IDLC,  
18 offer them, the customer and the loop over copper,  
19 once we make that swap in facilities.

20 MS. NATOLI: So that's a line and station,  
21 therefore, so there's a charge associated with that,  
22 in addition to the recurring and nonrecurring

1 monthly charges that --

2 MS. CLAYTON: Well, what Cavalier would be  
3 paying for at that point are the recurring and  
4 nonrecurring charges associated with the bundled  
5 loop itself, yes.

6 MS. NATOLI: That's right. That's what I  
7 meant.

8 MS. CLAYTON: Yes.

9 MS. NATOLI: Now, contrast that with a  
10 situation where there is no copper there at all,  
11 under the triennial -- some method has got to be  
12 provided, and we've already said why hairpin and  
13 whatever according to Verizon doesn't work. So  
14 you're going to lay copper, figure out how to get it  
15 there. Then there's no line and station transfer,  
16 or is there?

17 There is that to get them to transfer them  
18 to that facility, plus the construction charges and  
19 then the monthly recurring and nonrecurring charges?

20 MS. CLAYTON: No. If we were building out  
21 a new facility, either new copper or new UDLC, then  
22 they would not pay a line and station transfer

1 charge; they would pay an engineering query, an  
2 engineering work order, if they instructed us to go  
3 ahead, and the time and materials charge. But not  
4 the LST.

5 MS. NATOLI: Okay. Because that -- okay.  
6 But I assume that the cost associated with switching  
7 them over from your line to there is somehow  
8 included in those other charges that --

9 MS. CLAYTON: Yes.

10 MS. NATOLI: -- you've just identified  
11 that cost somehow.

12 MS. CLAYTON: That's right.

13 MR. MILLER: In the situation Ms. Natoli  
14 was referring to, if there were an option -- if you  
15 were considering either building out UDLC or  
16 building out a new copper facility, and those cost  
17 different amounts, would the CLEC ever have a choice  
18 in terms of if there are different charges for each,  
19 or do you just choose one and offer that to the  
20 CLEC?

21 MS. CLAYTON: They would definitely have a  
22 choice. As a matter of fact, if I could back up a

1 little, I had said earlier that line and station  
2 transfers have been around ever since we implemented  
3 a DSL stand-alone loop.

4 When a line and station transfer happened  
5 in the past, when it involved simply a stand-alone  
6 DSL loop, we weren't able to tell that we were in a  
7 situation that would require an LST until we were  
8 actually in the provisioning process.

9 So the way that it works today is, we  
10 would receive an order for a DSL stand-alone loop,  
11 we start provisioning the order, find out that an  
12 LST was required, and would continue to process the  
13 order with an LST.

14 A CLEC would not have an opportunity in  
15 yesterday's environment to say, yes, we understand  
16 there's a charge involved, we agree, go ahead with  
17 the order, or they would cancel the order.

18 Post triennial, because of some of the  
19 activity that we're involved in now, we have said  
20 it's appropriate to stop the order upon inquiry. If  
21 there is going to be a construction charge involved,  
22 either a line and station transfer or a build-out of

1 copper or UDLC facilities, query the CLEC back  
2 first, let them know that action needs to be taken,  
3 we would let them know if it's going to be a line  
4 and station transfer or a build-out of facilities.

5 If it is a build-out of facilities, either  
6 copper or UDLC, our engineers would prepare a rate  
7 proposal. That time and materials or rate proposal  
8 would go back to the CLEC before we did anything  
9 with the order.

10 So they would have to actually tell us if  
11 they wanted us to proceed with that work order or  
12 not. They would only be billed if a firm order were  
13 placed.

14 MS. NATOLI: All right. So if your  
15 customer, your retail customer, wanted -- again,  
16 needed a capability that couldn't be done over the  
17 IDLC, and you needed to make this happen to serve  
18 that customer, how much addition you said that you  
19 don't charge them or you're not aware that you would  
20 charge that customer the time and materials --

21 MS. CLAYTON: Let me clarify something. I  
22 think you probably heard it said earlier that we can

1 serve customers over IDLC.

2 MS. NATOLI: Right. But not this  
3 nonswitched -- not a private line type thing.

4 MS. CLAYTON: If it's an end user who was  
5 asking for DSL-type service, Verizon DSL, let's say,  
6 that does require a copper facility, Verizon would  
7 order using the same interfaces as a CLEC, and we  
8 would internally bill the LST charge to Verizon.

9 So they are going through that same LST  
10 activity in charging that a CLEC would go through.  
11 That is the one scenario I can think of where we  
12 would need to convert them from an IDLC to a copper  
13 facility.

14 MS. NATOLI: But your end user customer  
15 isn't being billed those costs like that -- being  
16 billed those costs.

17 MS. CLAYTON: Actually, I'm not on that  
18 side of the retail market that deals with end user  
19 DSL customers. I don't know if they pass that cost  
20 along to their end user or not in their price plan.

21 MS. NATOLI: Do you know just how much  
22 time it would take to do -- go through this whole



1 process of proposing the two different ways and  
2 giving them the CLEC, whoever it is, the opportunity  
3 to review the pricing proposal before you actually  
4 get the loop -- the loop is actually there for them  
5 to convert the customer?

6 MS. CLAYTON: Well, the issue came up  
7 earlier today about our loop qualification tools.  
8 One of the enhancements that we are looking at is  
9 enhancing those tools to clearly tell a CLEC up  
10 front whether a customer served by IDLC, whether we  
11 think we can perform an LST-type activity or not.

12 Beyond that, if an order is placed, we  
13 generally respond within three business days to let  
14 them know if IDLC is the only thing serving that  
15 customer and if we do need to take additional action  
16 to provision a facility.

17 MS. NATOLI: But then to provision the  
18 facility, you don't -- you don't have knowledge  
19 about how long that might take?

20 MS. CLAYTON: Well, to provision the  
21 facility, if it's a single-step LST, that can  
22 normally be done within the intervals that are in